

# Work Order ID 87090

\*87090\*

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Item ID: D412-742-013 Accept \*N900040100\* Setup Start \*NS1\*  
 Revision ID: Stop \*NS2\*  
 Item Name: Float Skidtube Installation  
 Start Date: 8/06/12 Start Qty: 1.00 \*1\* Cust Item ID:  
 Required Date: 8/31/12 Req'd Qty: 1.00 \*1\* Customer:  
 Reference:

Approvals: Process Plan: P Date: 12/02/11 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start \*NR1\*  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop \*NR2\*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
IIN D412-742	E								
100	DOCUMENT CONTROL	0.00	2 Label						
*100*			Blanc						
DC	Memo	0.00							
Document Control	Photocopy bluefile and create labels per PPP D412-742-013		CHG007						
110	Pick Kit	0.00							
*110*									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
*120*									
QC	Memo	0.00							
Quality Control									

1387071

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

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Work Order ID: 87090  
 Parent Item: D412-742-013  
 Parent Item Name: Float Skidtube Installation

Start Date: 8/06/12  
 Start Qty: 1.00  
 Required Date: 8/31/12  
 Required Qty: 1.00

Comments: IPP Rev: A05.10.13New Issue KJ/JLM  
 IPP Rev:B 06-06-08 As per DSI9336 JLM  
 1072 DD verified by:JLM  
 IPP Rev:D 08-09-08 ecn 08-510 DD verified by:EC  
 IPP Rev:E 09-01-23 as per DSI9441 DD verified by:EC IPP RevF: add AN4C7A DD  
 10.01.13 verified by:EC IPP Rev:G 11.11.01 as per DSI9517 REV.B DD verified  
 by:EC IPP rev:H 12.01.12 PER IIN REV.E DD VERF: IPP Rev:I add AN4C47A  
 DD 12.03.14 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN4C47A Bolt		Purchased	No			110	Each	128.0000	4	122491	JB	8/8	
				<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>						
				ST361		128							
				118451		6							
				119798		2							
				121009		22							
				121585		2							
				122012		46							
				122204		50							
D412-742-043 Replacement Float Skidtube		Manufactured	No			110	Each	0.0000		138707	JB	12/8/08	
D2571 Saddle, Fwd Out 205		Manufactured	No			110	Each	15.0000		84989	JB	12/08/28	
				<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>						
				ST		1							
				11644		1							
				ST425		-13							
				ST432		14							
				85607		8							
				85883		6							
				ST433		13							

# Dart Aerospace Ltd

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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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Work Order ID: 87090

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation

Start Date: 8/06/12

Required Date: 8/31/12

Start Qty: 1.00

Required Qty: 1.00

**D2572**  
Saddle, Fwd In 205

Manufactured No

110 Each 7.0000

**0** 84990 1 ✓ JB SP

Location

Loc Qty

Loc Code

ST432

7

71107

2

85882

5

**D2573**  
Saddle, Aft Out 205

Manufactured No

110 Each 3.0000

**0** 85609 1 ✓ JB SP

Location

Loc Qty

Loc Code

ST423

-12

79424

0

ST433

3

83669

3

ST434

12

**D2574**  
Saddle, Aft In 205

Manufactured No

110 Each 3.0000

**0** 85610 1 ✓ JB SP

Location

Loc Qty

Loc Code

ST433

3

83671

3

**D2876**  
Saddle Spacer

Manufactured No

110 Each 94.0000

**2** 2 ✓ JB SP

Location

Loc Qty

Loc Code

ST020

94

83323

40

83890

54

**D2877**  
Saddle Spacer

Manufactured No

110 Each 104.0000

**2** 2 ✓ JB SP 12/08/28

Location

Loc Qty

Loc Code

ST020

104

83324

3

83891

61

86442

40

86442

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Work Order ID: 87090  
 Parent Item: D412-742-013  
 Parent Item Name: Float Skidtube Installation

Start Date: 8/06/12

Required Date: 8/31/12

Start Qty: 1.00

Required Qty: 1.00

D3403-1 Bushing	Manufactured	No	110	Each	65.0000	8	8	✓ JB	
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>				
			ST041	15					
			70696	15					
			ST042	50					
			80208	7					
			80219	4					
			85661	39					
D3403-5 Bushing	Manufactured	No	110	Each	45.0000	8	8	✓ JB	
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>				
			ST042	45					
			85664	45					
D2747 Set Screw	Manufactured	No	110	Each	296.0000	4	4	✓ JB	
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>				
			ST017	296					
			79520	5					
			81877	91					
			86439	200					
D3533-1 Set Screw	Manufactured	No	110	Each	68.0000	2	2	✓ JB	12/08/28
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>				
			ST053	68					
			80326	2					
			83892	66					

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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Work Order ID: 87090

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation

Start Date: 8/06/12

Required Date: 8/31/12

Start Qty: 1.00

Required Qty: 1.00

AN4C6A Bolt Purchased No 110 Each 399.0000 16 16 JB

Location	Loc Qty	Loc Code
FG	4	
103344	4	
ST356	395	
116704	2	
120423	1	
121657	392	

AN4C53A Bolt Purchased No 110 Each 105.0000 4 4 JB

Location	Loc Qty	Loc Code
ST361	105	
122193	99	
122194	6	

AN4C52A BOLT Purchased No 110 Each 8.0000 4 4 JB

Location	Loc Qty	Loc Code
ST361	8	
117688	6	
120364	2	

AN6C12A BOLT Purchased No 110 Each 48.0000 8 8 JB 12/08/28

Location	Loc Qty	Loc Code
ST341	48	
121541	7	
122204	41	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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Work Order ID: 87090

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation

Start Date: 8/06/12

Required Date: 8/31/12

Start Qty: 1.00

Required Qty: 1.00

D3672-3 Manufactured No  
Phenolic Washer

110 Each 1,275.0000

32

32

Location

Loc Qty

Loc Code

ST060

1275

84361

275

84432

500

86517

500

7x84361  
25x84432

AN960C416L Purchased No  
WASHER

110 Each 0.0000

32

32

D3672-9 Manufactured No  
Phenolic Washer

110 Each 308.0000

8

8

Location

Loc Qty

Loc Code

ST060

308

81763

308

81763

NAS1149C0632R Purchased No  
WASHER

110 Each 183.0000

8

8

Location

Loc Qty

Loc Code

ST297

183

119736

2

120308

1

121825

180

121825

D3672-11 Manufactured No  
Phenolic Washer

110 Each 203.0000

8

8

Location

Loc Qty

Loc Code

ST060

203

77483

203

77483

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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Work Order ID: 87090

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation

Start Date: 8/06/12

Required Date: 8/31/12

Start Qty: 1.00

Required Qty: 1.00

MS21043-4

Nut

Purchased No

110 Each 1,766.0000

29

29

122 4 52

JB

JP

## Location

## Loc Qty

## Loc Code

FG 40  
104603 40  
ST301 726  
119546 4  
121162 282  
121652 440  
ST318 1000  
122141 1000

D3403-3

Bushing

Manufactured No

110 Each 52.0000

8

8

JB

JP

## Location

## Loc Qty

## Loc Code

ST042 52  
85662 52

D3405-041

Lug Assembly

Manufactured No

110 Each 13.0000

1

1

JB

JP

## Location

## Loc Qty

## Loc Code

ST478 13  
62227 2  
77000 2  
83370 3  
83896 6

D3405-043

Lug Assembly

Manufactured No

110 Each 8.0000

1

1

JB

JP

12/08/28

## Location

## Loc Qty

## Loc Code

ST478 8  
82038 1  
83897 7

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

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Work Order ID: 87090

Parent Item: D412-742-013



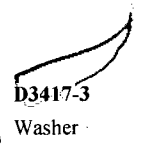
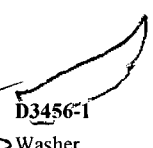
Parent Item Name: Float Skidtube Installation

Start Date: 8/06/12

Required Date: 8/31/12

Start Qty: 1.00

Required Qty: 1.00

 AN4C7A-Bolt	Purchased	No		110	Each	123.0000	<div>4</div>	4 ✓ JB
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			ST356	123				
			109147	123				
 D3407-041 Tow Ring	Manufactured	No		110	Each	1.0000	<div>1</div>	<div>109147</div> 88213 1 ✓ JB
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			ST463	1				
			82068	1				
 D3417-3 Washer	Manufactured	No		110	Each	21.0000	<div>2</div>	2 ✓ JB
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			FG	9				
			33519	9				
			ST042	12				
			80225	12				
 D3456-1 Washer	Manufactured	No		110	Each	214.0000	<div>1</div>	<div>80225</div> 1 ✓ JB 12/08/28
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			FG	7				
			25701	7				
			ST044	207				
			80252	1				
			81876	14				
			83584	92				
			85223	100			<div>85223</div>	

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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**NOTE:** Date & initial all entries



# Picklist Print

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Work Order ID: 87090

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation

Start Date: 8/06/12

Required Date: 8/31/12

Start Qty: 1.00

Required Qty: 1.00

AN3C37A

Purchased No

110 Each 154.0000

1 1 ✓ JB

BOLT

Location	Loc Qty	Loc Code
ST324	50	
122204	50	
ST354	104	
116874	11	
117010	2	
120422	3	
121068	36	
121584	2	
121585	50	

AN3C40A

Purchased No

110 Each 20.0000

1 1 ✓ JB

BOLT

Location	Loc Qty	Loc Code
ST354	20	
114442	20	

AN3C41A

Purchased No

110 Each 211.0000

1 1 ✓ JB 12/08/28

BOLT

Location	Loc Qty	Loc Code
FG	4	
103324	4	
ST354	207	
121013	26	
121313	80	
121689	1	
122241	100	

122241

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Work Order ID: 87090

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation

Start Date: 8/06/12

Required Date: 8/31/12

Start Qty: 1.00

Required Qty: 1.00

AN3C42A BOLT	Purchased	No	110	Each	69.0000	1 ✓ JB	88
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>		
			ST354	69			
			106176	1			
			120464	1			
			121103	17		12/10/3	
			122241	50			
AN3C43A BOLT	Purchased	No	110	Each	61.0000	4 ✓ JB	88
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>		
			ST354	61			
			114455	2			
			119673	1			
			120465	58		120465	
AN3C46A BOLT	Purchased	No	110	Each	51.0000	5 ✓ JB	88
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>		
			ST355	51			
			120447	3			
			122204	48		122204	
AN960C10L washer	Purchased	No	110	Each	21.0000	26 ✓ JB	12/08/28
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>		
			ST	21			
			107534	21			

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W/O:		WORK ORDER CHANGES					
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Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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Work Order ID: 87090

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation

Start Date: 8/06/12

Required Date: 8/31/12

Start Qty: 1.00

Required Qty: 1.00

MS21043-3

Purchased

No

110

Each

1,086.0000

13

13

Nut

✓ 12/08/28

## Location

## Loc Qty

## Loc Code

FG	72
103691	72
ST301	1014
118077	2
118614	12
118686	30
119758	20
121255	93
121708	857

121708

W/O:		WORK ORDER CHANGES					
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Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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# REFERENCE ONLY

DART AEROSPACE USA, INC.

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## 5.2 D412-742-013 (APICAL TRI-BAG) Float Skidtube Installation Parts List

Item	Qty -013	Qty -043	Part Number	Description
	X		D412-742-013	FLOAT SKIDTUBE INSTALLATION
	 1	X	D412-742-043	FLOAT SKIDTUBE
		1	D3391-043	412 FLOAT SKIDTUBE
1		*24	*AN3C4A	*BOLT
3		*10	*AN3C6A	*BOLT
4		*4	*AN3C7A	*BOLT
5		*38	*AN960C10L	*WASHER
21		*1	*D4095-041	*WEARSHOE (REPLACES D3564-1)
22		*1	*D4095-043	*WEARSHOE (REPLACES D3564-3)
23		*1	*D4095-045	*WEARSHOE (REPLACES D3564-5)
10		*1	*D3391-021	*412 FORWARD TUBE
11		**1	**D3401-041	**TOW CAP
12A		**10	**AELS-1032-225	**INSERT (REPLACES NAS1330S3KB166)
13		**10	**AN3C4A	**BOLT
14A		**4	**D3672-1	**WASHER (REPLACES NAS1515H3L)
14B		**10	**AN960C10L	**WASHER
24		**1	**D4095-051	**WEARSHOE (REPLACES D3564-13)
20		*1	*D3391-023	*412 MID TUBE
28		**20	**AELS-1032-130	**INSERT (REPLACES NAS1330S3KB116)
30		*1	*D3391-025	*412 AFT TUBE
25		**1	*D4095-049	**WEARPAD (REPLACES D3537-1)
26		**1	*D4095-047	**WEARPAD (REPLACES D3537-7)
31		**1	**D2646	**AFT CAP
32		**14	**AELS-1032-130	**INSERT
36		**8	**AELS-1032-225	**INSERT (REPLACES NAS1330S3KB366)
37A		**6	**AN3C4A	**BOLT
37B		**4	**AN3C5A	**BOLT
38A		**2	**D3672-1	**WASHER (REPLACES NAS1515H3L)
38B		**10	**AN960C10L	**WASHER

(CONTINUED ON PAGE 20)

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Date: 11.10.19





REFERENCE ONLY

DART AEROSPACE USA, INC.

IIN-D412-742

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Item	Qty -013	Qty -043	Part Number	Description
40	1		D2571	SADDLE, FWD OUTSIDE
41	1		D2572	SADDLE, FWD INSIDE
42	1		D2573	SADDLE, AFT OUTSIDE
43	1		D2574	SADDLE, AFT INSIDE
44	2		D2876	SADDLE SPACER
45	2		D2877	SADDLE SPACER
46A	8		D3403-1	BUSHING
46B	8		D3403-5	BUSHING
47A	4		D2747	SET SCREW
47B	2		D3533-1	SET SCREW
48	16		AN4C6A	BOLT
49A	4		AN4C52A	BOLT
49B	4		AN4C53A	BOLT
50	8		AN6C12A	BOLT
51A	32		D3672-3	WASHER (REPLACES NAS1515H4L)
51B	32		AN960C416L	WASHER
52A	8		D3672-9	WASHER (REPLACES NAS1515H6L)
52B	8		AN960C616L	WASHER
53	8		D3672-11	WASHER (REPLACES NAS1515H7L)
54	24		MS21043-4	NUT
55	4		AN4C7A	BOLT
56	2		D3591-1	BUSHING
60	8		D3403-3	BUSHING
61	1		D3405-041	GHW LUG
62	1		D3405-043	GHW LUG
63	4		AN4C47A	BOLT
64	4		MS21043-4	NUT
70	1		D3407-041	TOW RING
71	2		D3417-3	WASHER
72	1		MS21043-4	NUT
73	1		D3456-1	WASHER
91	1		AN3C37A	BOLT
92	1		AN3C40A	BOLT
93	1		AN3C41A	BOLT
94	1		AN3C42A	BOLT
95	4		AN3C43A	BOLT
97	5		AN3C46A	BOLT
99	26		AN960C10L	WASHER
100	13		MS21043-3	NUT

\*DENOTES PART IS INCLUDED WITH D3391-043 ASSEMBLY ABOVE

\*\*DENOTES THAT PART IS INCLUDED WITH ASSEMBLY ABOVE

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# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-742 REV. E  
AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-742 REV. 4

REF. FAA STC: SR01583SE  
REF. CANADIAN STC: SH05-37  
REF. EASA STC: EASA.IM.R.S.01126

## PURPOSE

For D412-742-011/-013 Float Skidtube Installations, qty(4) AN4C53A bolts may be replaced with qty(4) AN4C52A bolts. Kits may be supplied from Dart with either AN4C52A or AN4C53A bolts.

Note that it is acceptable to use longer or shorter AN4C bolts than those specified, as long as there is a minimum of 1.5 threads in safety.

## CHANGE

The parts lists of Installation Instructions IIN-D412-742 Rev. E and Instructions for Continued Airworthiness ICA-D412-742 Rev. 4 is amended as follows:

5.1 D412-742-011 (PMA/OEM) Float Skidtube Installation Parts List (IIN-D412-742)

32.18 D412-742-011 (PMA/OEM) Float Skidtube Installation Parts List (ICA-D412-742)

Item	Qty -011	Qty -041	Qty -015	Part Number	Description
	X			D412-742-011	FLOAT SKIDTUBE INSTALLATION

IS:

49B	4			AN4C53A OR AN4C52A	BOLT
-----	---	--	--	-----------------------	------

WAS:

49B	4			AN4C53A	BOLT
-----	---	--	--	---------	------

5.2 D412-742-013 (APICAL TRI-BAG) Float Skidtube Installation Parts List (IIN-D412-742)

32.19 D412-742-013 (APICAL TRI-BAG) Float Skidtube Installation Parts List (ICA-D412-742)

Item	Qty -013	Qty -043	Part Number	Description
	X		D412-742-013	FLOAT SKIDTUBE INSTALLATION

IS:

49B	4			AN4C53A OR AN4C52A	BOLT
-----	---	--	--	-----------------------	------

WAS:

49B	4			AN4C53A	BOLT
-----	---	--	--	---------	------

A	NEW ISSUE	CP	12.02.28
REV.	DESCRIPTION	BY	DATE
DESIGN	99	DART AEROSPACE USA, INC	
DRAWN	99	KENT, WA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9600	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		BOLT SUBSTITUTION	NTS
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